

TABLE 56.50-105—ACCEPTABLE MATERIALS AND TOUGHNESS TEST CRITERIA²—Continued

Product form	ASTM specification ³	Grade ⁴	Minimum service temperature	Minimum avg Charpy V notch energy
Bolting	A-320	L7, L9, L10, L43	– 150 °F	average must be attained in these tests.
		B8D, B8T, B8F, B8M ...	– 325 °F	20 ft. lb.
		2B8, B8C	No limit	No test required.
				No test required, except for service temperatures colder than – 425 °F. In such case the minimum average energy is 25 ft. lb.
Nuts, bolting	A-194	4	– 150 °F	20 ft. lb.
		8T, 8F	– 325 °F	No test required.
		8, 8C	No limit	Same requirement as comparable grades (B8, B8C) of bolting listed above.

¹ Quench and temper heat treatment may be permitted when specifically authorized by the Commandant. In those cases the minimum average Charpy V-notch energy shall be specially designated by the Commandant.

² Other material specifications for product forms acceptable under part 54 for use at low temperatures may also be used for piping systems provided the applicable toughness requirements of this Table are also met.

³ Any repair method must be acceptable to the Commandant CG-521, and welding repairs as well as fabrication welding must be in accordance with part 57 of this chapter.

⁴ The acceptability of several alloys for low temperature service is not intended to suggest acceptable resistance to marine corrosion. The selection of alloys for any particular shipboard location must take corrosion resistance into account and be approved by the Marine Safety Center.

NOTE: The ASTM standards listed in table 56.50-105 are incorporated by reference; see 46 CFR 56.01-2.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGFR 72-59R, 37 FR 6189, 6190, Mar. 25, 1972; CGD 73-254, 40 FR 40165, Sept. 2, 1975; CG 79-108, 43 FR 46545, Oct. 10, 1978; CGD 74-289, 44 FR 26008, May 3, 1979; CGD 77-140, 54 FR 40611, Oct. 2, 1989; CGD 83-043, 60 FR 24775, May 10, 1995; USCG-2000-7790, 65 FR 58460, Sept. 29, 2000; USCG-2003-16630, 73 FR 65178, Oct. 31, 2008; USCG-2009-0702, 74 FR 49228, Sept. 25, 2009]

§ 56.50-110 Diving support systems.

(a) In addition to the requirements of this part, piping for diving installations which is permanently installed on the vessel must meet the requirements of subpart B (Commercial Diving Operations) of part 197 of this chapter.

(b) Piping for diving installations which is not permanently installed on the vessel need not meet the requirements of this part, but must meet the requirements of subpart B of part 197 of this chapter.

(c) Piping internal to a pressure vessel for human occupancy (PVHO) need not meet the requirements of this part, but must meet the requirements of subpart B of part 197 of this chapter.

[CGD 76-009, 43 FR 53683, Nov. 16, 1978]

Subpart 56.60—Materials

§ 56.60-1 Acceptable materials and specifications (replaces 123 and Table 126.1 in ASME B31.1).

(a)(1) The material requirements in this subpart shall be followed in lieu of those in 123 in ASME B31.1 (incorporated by reference; see 46 CFR 56.01-2).

(2) Materials used in piping systems must be selected from the specifications that appear in Table 56.60-1(a) of this section or 46 CFR 56.60-2, Table 56.60-2(a), or they may be selected from the material specifications of sections I or VIII of the ASME Boiler and Pressure Vessel Code (both incorporated by reference; see 46 CFR 56.01-2) if not prohibited by a regulation of this subchapter dealing with the particular